

Claims

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~~1. Method for transmitting and receiving data in a code division multiple access telecommunication system, comprising the steps of providing a random access time window (20) comprising a plurality of random access slots for transmitting random access data from at least one first communication device (24) to a second communication device (25), dividing the plurality of random access slots of the random access time window (20) into at least two groups, and allocating the groups to respective priority classes, whereby the priority classes represent the transmission priorities of the random access data to be transmitted in the random access slots.~~

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2. Method for transmitting and receiving data according to claim 1, **characterized in,** that the transmission priorities of the random access data to be transmitted are determined on the basis of the content and the type of the random access data.

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3. Method for transmitting and receiving data according to claim 1 ~~or 2~~, **characterized in,** that the number of random access slots in each group is variably set depending on system requirements.

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~~4. Method for transmitting and receiving data according to claim 1, ~~2 or 3~~, characterized in,~~ that a first communication device (24), for transmitting random access data of a certain transmission priority, randomly chooses one or more random access slots from the group having the corresponding priority class.

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5. Method for transmitting and receiving data according to claim 4, **characterized in,** that the access probability depends on the number of random access slots in the group.

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6. Method for transmitting and receiving data according to ~~one of the preceding claims~~, **characterized in,** that said second communication device (25) periodically broadcasts information

defining the groups of the random access time window (20) to the at least one first communication device.

7. Method for transmitting and receiving data according to ~~one of the preceding claims~~,
characterized in,

that each random access slot in said random access time window (20) is defined by a time offset value and a preamble code.

8. Device (24) for transmitting and receiving data in a code division multiple access telecommunication system, in which a random access time window (20) comprising a plurality of random access slots for transmitting random access data is provided, the plurality of random access slots of the random access time window (20) being divided into at least two groups and the groups being allocated to respective priority classes, whereby the priority classes represent the transmission priorities of the random access data to be transmitted in the random access slots, with
means (30) for randomly choosing one or more random access slots from a group having a certain priority class corresponding to the transmission priority of the random access data to be transmitted, and
means (29) for transmitting the random access data in said chosen random access slot(s).

9. Device for transmitting and receiving data according to claim 8,
characterized in,
that the access probability depends on the number of random access slots in the group.

10. Device for transmitting and receiving data according to claim 8 ~~or 9~~,
characterized by
means (31) for extracting information defining the groups of the random access time window (20) from a received broadcast signal.

11. Device for transmitting and receiving data according to ~~one of the claims 8 to 10~~,
characterized in,
that each random access slot in said random access time window is defined by a time offset value and a preamble code.

12. Device (25) for transmitting and receiving data in a code division multiple access telecommunication system, in which a random access time window (20) comprising a plurality of random access slots for transmitting random access data is provided, with
means (34) for dividing the plurality of random access slots of the random access time

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5 window into at least two groups, whereby the groups are allocated to respective priority classes, the priority classes representing the transmission priorities of the random access data to be transmitted in the random access slots, and

means (34) for transmitting information defining the groups of the random access time window.

13. Device for transmitting and receiving data according to claim 12,
characterized in,

10 that the transmission priorities of the random access data to be transmitted are determined on the basis of the content and the type of the random access data.

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14. Device for transmitting and receiving data according to claim 12 ~~or 13~~,
characterized in,

15 that said means (34) for dividing the random access slots into groups sets the number of random access slots in each group variably depending on system requirements.

15. Device for transmitting and receiving data according to ~~one of the claims 12 to 14~~,
characterized in,

20 that each random access slot in said random access time window is defined by a time offset value and a preamble code.